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a tracking position of the magnetic flux detecting means, in accordance with a radial position of a track scanned on the disk.

3. An information recording/reproducing apparatus for a magnetic recording medium for storing an information with a recording magnetic domain in a magnetic recording layer formed on a substrate surface, comprising,

heating means for heating partially the recording medium, magnetic field applying means for applying a magnetic field to the vicinity of an area heated by the heating means, and a swing-arm-shaped supporting portion on which magnetic flux detecting means for detecting a magnetic flux on the recording medium is mounted, characterized in that a shape of the area of the magnetic recording medium heated by the heating means rotates in accordance with a rotational direction of the swing arm.

4. An information recording/reproducing apparatus according to claim 3, characterized in that a longitudinal direction of the heated area by the heating means is substantially parallel to a longitudinal direction of the magnetic flux detecting means.

5. An information recording/reproducing apparatus according to claim 3 or 4, characterized in that

the heating means is a light emitting means

for forming a minute light spot, at least a part of the light emitting means is formed on the swing arm, and

an optical element for projecting the minute light spot onto the recording medium, the minute light spot being elongated in a swing arm traversing direction relatively in comparison with a case without the optical element, is arranged on an optical path of the light emitting means.

6. An information recording/reproducing apparatus according to any one of claims 3-5, characterized in that a tracking position of the heating means is changed relatively with respect to a tracking position of the magnetic flux detecting means, in accordance with a radial position of a track scanned on the disk.

7. An information recording/reproducing apparatus according to claim 2 or 6, characterized in that an optimum relative tracking position is obtained through a test writing and a test reading when the tracking position of the heating means is relatively changed with respect to the tracking position of the magnetic flux detecting means in accordance with a radial position of the track scanned on the disk.

8. An information recording/reproducing apparatus and information recording medium according to claim 2 or 6, characterized in that the recording medium has an information recording layer on a substrate surface including recess-and-projection

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11. An information recording medium according to claim 10, characterized in that the recording medium surface has the recess-and-projection structure

representing servo-information, address-information, clock-information, ROM data or the like, and the recess-and-projection structure is formed with an angle with respect to the track direction, varying according to respective radial position on the recording medium.